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hes1 and plant

2

L1

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☐ 1. Document ID: US 20020094529 A1

L1: Entry 1 of 2

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020094529

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020094529 A1

TITLE: Gene identification

PUBLICATION-DATE: July 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Case, Casey C.	San Mateo	CA	US	
Urnov, Fyodor	Richmond	CA	US	

US-CL-CURRENT: 435/6; 435/4, 435/455

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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☐ 2. Document ID: WO 200104314 A2 AU 200060841 A

L1: Entry 2 of 2

File: DWPI

Jan 18, 2001

DERWENT-ACC-NO: 2001-112619

DERWENT-WEEK: 200112

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TITLE: Nucleic acid molecules encoding plant HES1 protein are used to produce transgenic plants with increased phytosterol production and increased ability to act as a cholesterol lowering agent when eaten

INVENTOR: KARUNANANDAA, B; KISHORE, G M ; YU, J

PRIORITY-DATA: 1999US-142981P (July 12, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 200104314 A2	January 18, 2001	E	096	C12N015/29
AU 200060841 A	January 30, 2001		000	C12N015/29

INT-CL (IPC): A01 H 1/00; C07 K 14/415; C07 K 16/16; C12 N 5/10; C12 N 15/29; C12 N 15/82; G01 N 33/50

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Image
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Generate Collection

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Terms	Documents
hes1 and plant	2

Display Format:

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\$%^STN;HighlightOn= ***;HighlightOff=*** ;

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NEWS	4	Apr 09	ZDB will be removed from STN
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NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
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NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS EXPRESS			February 1 CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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=> s hes1 and plant

L1 5 HES1 AND PLANT

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PROCESSING COMPLETED FOR L1

L2 5 DUPLICATE REMOVE L1 (0 DUPLICATES REMOVED)

=> d l2 1-5

L2 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS

AN 2001:50818 CAPLUS

DN 134:111270

TI Oxysterol binding protein ***HES1*** and cDNA of yeast and
plants and method for altering phytosterol levels in transgenic
plants

IN Karunanandaa, Balasulojini; Yu, Jaehyuk; Kishore, Ganesh M.

PA Pharmacia Corporation, USA

SO PCT Int. Appl., 96 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2001004314 A2 20010118 WO 2000-US18813 20000711
 WO 2001004314 A3 20010525
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
 HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
 LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 PRAI US 1999-142981P P 19990712

L2 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 2001:497246 BIOSIS
 DN PREV200100497246
 TI HES6 acts as a transcriptional repressor in myoblasts and can induce the
 myogenic differentiation program.
 AU Gao, Xiangming; Chandra, Tanya; Gratton, Michel-Olivier; Quelo, Isabelle;
 Prud'homme, Josee; Stifani, Stefano; St-Arnaud, Rene (1)
 CS (1) Genetics Unit, Shriners Hospital for Children, 1529 Cedar Ave.,
 Montreal, PQ, H3G 1A6: rst-arnaud@shriners.mcgill.ca Canada
 SO Journal of Cell Biology, (September 17, 2001) Vol. 154, No. 6, pp.
 1161-1171. print.
 ISSN: 0021-9525.
 DT Article
 LA English
 SL English

L2 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1997:65712 BIOSIS
 DN PREV199799364915
 TI Sequence and analysis of a 26 cntdot 9 kb fragment from chromosome XV of
 the yeast *Saccharomyces cerevisiae*.
 AU Boyer, Jeanne (1); Michaux, Gregoire; Fairhead, Cecile; Gaillon, Laurent;
 Dujon, Bernard
 CS (1) Unite Genetique Moleculaire Levures, Inst. Pasteur, 25 rue du Dr.
 Roux, F-75724 Paris Cedex 15 France
 SO Yeast, (1996) Vol. 12, No. 15, pp. 1575-1586.
 ISSN: 0749-503X.
 DT Article
 LA English

L2 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AN 1996:54151 BIOSIS
 DN PREV199698626286
 TI Inactivation of a homolog of the human oxysterol binding protein obviates
 the normally essential requirement for phosphatidylinositol transfer
 protein function in yeast.
 AU Fang, Min; Kagiwada, S.; Bankaitis, V. A.
 CS Dep. Cell Biol., Univ. Ala. at Birmingham, Birmingham, AL 35294-0005 USA
 SO Molecular Biology of the Cell, (1995) Vol. 6, No. SUPPL., pp. 396A.
 Meeting Info.: Thirty-fifth Annual Meeting of the American Society for
 Cell Biology Washington, D.C., USA December 9-13, 1995
 ISSN: 1059-1524.
 DT Conference
 LA English

L2 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1994:225806 BIOSIS
DN PREV199497238806
TI A new family of yeast genes implicated in ergosterol synthesis is related to the human oxysterol binding protein.
AU Jiang, Bo; Brown, Jeffrey L.; Sheraton, Jane; Fortin, Nathalie; Bussey, Howard (1)
CS (1) Dep. Biol., McGill Univ., 1205 Dr. Penfield Avenue, Montreal, PQ H3A 1A1 Canada
SO Yeast, (1994) Vol. 10, No. 3, pp. 341-353.
ISSN: 0749-503X.
DT Article
LA English

=> d l1 1-4 ab

L1 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB HES6 is a novel member of the family of basic helix-loop-helix mammalian homologues of Drosophila Hairy and Enhancer of split. We have analyzed the biochemical and functional roles of HES6 in myoblasts. HES6 interacted with the corepressor transducin-like Enhancer of split 1 in yeast and mammalian cells through its WRPW COOH-terminal motif. HES6 repressed transcription from an N box-containing template and also when tethered to DNA through the GAL4 DNA binding domain. On N box-containing promoters, HES6 cooperated with ***HES1*** to achieve maximal repression. An HES6-VP16 activation domain fusion protein activated the N box-containing reporter, confirming that HES6 bound the N box in muscle cells. The expression of HES6 was induced when myoblasts fused to become differentiated myotubes. Constitutive expression of HES6 in myoblasts inhibited expression of MyoR, a repressor of myogenesis, and induced differentiation, as evidenced by fusion into myotubes and expression of the muscle marker myosin heavy chain. Reciprocally, blocking endogenous HES6 function by using a WRPW-deleted dominant negative HES6 mutant led to increased expression of MyoR and completely blocked the muscle development program. Our results show that HES6 is an important regulator of myogenesis and suggest that MyoR is a target for HES6-dependent transcriptional repression.

L1 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB We have determined the nucleotide sequence of a fragment of chromosome XV of Saccharomyces cerevisiae cloned into cosmid pEOA048. The analysis of the 26 857 bp sequence reveals the presence of 19 open reading frames (ORFs), and of one RNA-coding gene (SNR17A). Six ORFs correspond to previously known genes (MKK1/SSP32, YGE1/GRPE/MGE1, KIN4/KIN31/KIN3, RPL37B, DFR1 and ***HES1***, respectively), all others were discovered in this work. Only five of the new ORFs have significant homologs in public databases, the remaining eight correspond to orphans (two of them are questionable). 05248 is a probable folylpolyglutamate synthetase, having two structural homologs already sequenced in the yeast genome. 05273 shows homology with a yeast protein required for vanadate resistance. 05268 shows homology with putative oxidoreductases of different organisms. 05257 shows homology with the SAS2 protein and another hypothetical protein from yeast. The last one, 05245, shows homology with a putative protein of Caenorhabditis elegans of unknown function. The present sequence corresponds to coordinates 772 331 to 799

187 of the entire chromosome XV sequence which can be retrieved by anonymous ftp (ftp. mips. embnet. org).

L1 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

L1 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB We have identified three yeast genes, KES1, ***HES1*** and OSH1, whose products show homology to the human oxysterol binding protein (OSBP). Mutations in these genes resulted in pleiotropic sterol-related phenotypes. These include tryptophan-transport defects and nystatin resistance, shown by double and triple mutants. In addition, mutant combinations showed small but apparently cumulative reductions in membrane ergosterol levels. The three yeast genes are also functionally related as overexpression of ***HES1*** or KES1 alleviated the tryptophan-transport defect in kes1-DELTA or osh1-DELTA mutants, respectively. Our study implicates this new yeast gene family in ergosterol synthesis and provides comparative evidence of a role for human OSBP in cholesterol synthesis.

=> d l1 2-5 ab

L1 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB We have determined the nucleotide sequence of a fragment of chromosome XV of *Saccharomyces cerevisiae* cloned into cosmid pEOA048. The analysis of the 26 857 bp sequence reveals the presence of 19 open reading frames (ORFs), and of one RNA-coding gene (SNR17A). Six ORFs correspond to previously known genes (MKK1/SSP32, YGE1/GRPE/MGE1, KIN4/KIN31/KIN3, RPL37B, DFR1 and ***HES1***, respectively), all others were discovered in this work. Only five of the new ORFs have significant homologs in public databases, the remaining eight correspond to orphans (two of them are questionable). 05248 is a probable folylpolyglutamate synthetase, having two structural homologs already sequenced in the yeast genome. 05273 shows homology with a yeast protein required for vanadate resistance. 05268 shows homology with putative oxidoreductases of different organisms. 05257 shows homology with the SAS2 protein and another hypothetical protein from yeast. The last one, 05245, shows homology with a putative protein of *Caenorhabditis elegans* of unknown function. The present sequence corresponds to coordinates 772 331 to 799 187 of the entire chromosome XV sequence which can be retrieved by anonymous ftp (ftp. mips. embnet. org).

L1 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

L1 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

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L1 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS

AB This invention relates to the field of biotechnol., particularly as it pertains to the prodn. of sterols in a variety of host systems particularly ***plants***. More specifically, the invention relates to nucleic acid mols. encoding proteins and fragments of proteins assocd. with sterol and phytosterol metab. as well as the encoded proteins and fragments of proteins and antibodies capable of binding to them. The invention also relates to methods of using the nucleic acid mols., fragments of the nucleic acid mols., proteins, and fragments of proteins. The invention also relates to cells, organisms, particularly ***plants***, or seeds, or progeny of ***plants***, that have been manipulated to contain increased levels or overexpress at least one sterol or phytosterol compd.

=> d 11 5

L1 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS

AN 2001:50818 CAPLUS

DN 134:111270

TI Oxysterol binding protein ***HES1*** and cDNA of yeast and ***plants*** and method for altering phytosterol levels in transgenic ***plants***

IN Karunanandaa, Balasulojini; Yu, Jaehyuk; Kishore, Ganesh M.

PA Pharmacia Corporation, USA

SO PCT Int. Appl., 96 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001004314	A2	20010118	WO 2000-US18813	20000711
	WO 2001004314	A3	20010525		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1999-142981P P 19990712

=> d 12 1-5 ab

L2 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2002 ACS

AB This invention relates to the field of biotechnol., particularly as it pertains to the prodn. of sterols in a variety of host systems particularly ***plants***. More specifically, the invention relates to nucleic acid mols. encoding proteins and fragments of proteins assocd. with sterol and phytosterol metab. as well as the encoded proteins and fragments of proteins and antibodies capable of binding to them. The invention also relates to methods of using the nucleic acid mols.,

fragments of the nucleic acid mols., proteins, and fragments of proteins. The invention also relates to cells, organisms, particularly
plants, or seeds, or progeny of ***plants***, that have been manipulated to contain increased levels or overexpress at least one sterol or phytosterol compd.

L2 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB HES6 is a novel member of the family of basic helix-loop-helix mammalian homologues of Drosophila Hairy and Enhancer of split. We have analyzed the biochemical and functional roles of HES6 in myoblasts. HES6 interacted with the corepressor transducin-like Enhancer of split 1 in yeast and mammalian cells through its WRPW COOH-terminal motif. HES6 repressed transcription from an N box-containing template and also when tethered to DNA through the GAL4 DNA binding domain. On N box-containing promoters, HES6 cooperated with ***HES1*** to achieve maximal repression. An HES6-VP16 activation domain fusion protein activated the N box-containing reporter, confirming that HES6 bound the N box in muscle cells. The expression of HES6 was induced when myoblasts fused to become differentiated myotubes. Constitutive expression of HES6 in myoblasts inhibited expression of MyoR, a repressor of myogenesis, and induced differentiation, as evidenced by fusion into myotubes and expression of the muscle marker myosin heavy chain. Reciprocally, blocking endogenous HES6 function by using a WRPW-deleted dominant negative HES6 mutant led to increased expression of MyoR and completely blocked the muscle development program. Our results show that HES6 is an important regulator of myogenesis and suggest that MyoR is a target for HES6-dependent transcriptional repression.

L2 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB We have determined the nucleotide sequence of a fragment of chromosome XV of *Saccharomyces cerevisiae* cloned into cosmid pEOA048. The analysis of the 26 857 bp sequence reveals the presence of 19 open reading frames (ORFs), and of one RNA-coding gene (SNR17A). Six ORFs correspond to previously known genes (MKK1/SSP32, YGE1/GRPE/MGE1, KIN4/KIN31/KIN3, RPL37B, DFR1 and ***HES1***, respectively), all others were discovered in this work. Only five of the new ORFs have significant homologs in public databases, the remaining eight correspond to orphans (two of them are questionable). 05248 is a probable folylpolyglutamate synthetase, having two structural homologs already sequenced in the yeast genome. 05273 shows homology with a yeast protein required for vanadate resistance. 05268 shows homology with putative oxidoreductases of different organisms. 05257 shows homology with the SAS2 protein and another hypothetical protein from yeast. The last one, 05245, shows homology with a putative protein of *Caenorhabditis elegans* of unknown function. The present sequence corresponds to coordinates 772 331 to 799 187 of the entire chromosome XV sequence which can be retrieved by anonymous ftp (ftp.mips.embnet.org).

L2 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

L2 ANSWER 5 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB We have identified three yeast genes, KES1, ***HES1*** and OSH1, whose products show homology to the human oxysterol binding protein (OSBP). Mutations in these genes resulted in pleiotropic sterol-related phenotypes. These include tryptophan-transport defects and nystatin resistance, shown by double and triple mutants. In addition, mutant combinations showed small but apparently cumulative reductions in membrane

ergosterol levels. The three yeast genes are also functionally related as overexpression of ***HES1*** or KES1 alleviated the tryptophan-transport defect in kes1-DELTA or osh1-DELTA mutants, respectively. Our study implicates this new yeast gene family in ergosterol synthesis and provides comparative evidence of a role for human OSBP in cholesterol synthesis.

=> s hes1

L3 247 HES1

=> duplicate remove l3

DUPLICATE PREFERENCE IS 'BIOSIS, EMBASE, CAPLUS'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L3

L4 140 DUPLICATE REMOVE L3 (107 DUPLICATES REMOVED)

=> s l4 and wheat

L5 0 L4 AND WHEAT

=> s l4 and corn

L6 1 L4 AND CORN

=> d l6 1

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS

AN 2001:50818 CAPLUS

DN 134:111270

TI Oxysterol binding protein ***HES1*** and cDNA of yeast and plants and method for altering phytosterol levels in transgenic plants

IN Karunanandaa, Balasulojini; Yu, Jaehyuk; Kishore, Ganesh M.

PA Pharmacia Corporation, USA

SO PCT Int. Appl., 96 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001004314	A2	20010118	WO 2000-US18813	20000711
	WO 2001004314	A3	20010525		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRAI US 1999-142981P P 19990712

=> s l4 and phytosterol

L7 1 L4 AND PHYTOSTEROL

=> d l7 1

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
 AN 2001:50818 CAPLUS
 DN 134:111270
 TI Oxysterol binding protein ***HES1*** and cDNA of yeast and plants and
 method for altering ***phytosterol*** levels in transgenic plants
 IN Karunanandaa, Balasulojini; Yu, Jaehyuk; Kishore, Ganesh M.
 PA Pharmacia Corporation, USA
 SO PCT Int. Appl., 96 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001004314	A2	20010118	WO 2000-US18813	20000711
	WO 2001004314	A3	20010525		
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRAI US	1999-142981P	P	19990712		

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=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	51.73	51.94
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.24	-1.24

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PASSWORD:

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NEWS	1	Web Page URLs for STN Seminar Schedule - N. America
NEWS	2 Apr 08	"Ask CAS" for self-help around the clock
NEWS	3 Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4 Apr 09	ZDB will be removed from STN
NEWS	5 Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6 Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7 Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8 Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9 Jun 03	New e-mail delivery for search results now available
NEWS	10 Jun 10	MEDLINE Reload
NEWS	11 Jun 10	PCTFULL has been reloaded
NEWS	12 Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13 Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14 Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15 Jul 30	NETFIRST to be removed from STN
NEWS	16 Aug 08	CANCERLIT reload
NEWS	17 Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18 Aug 08	NTIS has been reloaded and enhanced
NEWS	19 Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20 Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21 Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22 Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23 Sep 03	JAPIO has been reloaded and enhanced
NEWS	24 Sep 16	Experimental properties added to the REGISTRY file
NEWS	25 Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	26 Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS EXPRESS	February 1	CURRENT WINDOWS VERSION IS V6.0d, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002
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FILE 'AGRICOLA' ENTERED AT 17:18:11 ON 25 SEP 2002

FILE 'CAPLUS' ENTERED AT 17:18:11 ON 25 SEP 2002

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=> s soybean(w) cDNA(w) library

L1 48 SOYBEAN(W) CDNA(W) LIBRARY

=> duplicate remove l1

DUPLICATE PREFERENCE IS 'AGRICOLA, CAPLUS, EMBASE, BIOSIS'

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PROCESSING COMPLETED FOR L1

L2 18 DUPLICATE REMOVE L1 (30 DUPLICATES REMOVED)

=> d l2 1-5

L2 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1

AN 2002:430449 CAPLUS

TI Identification and characterization of a soybean ethylene-responsive element-binding protein gene whose mRNA expression changes during soybean cyst nematode infection

AU Mazarei, Mitra; Puthoff, David P.; Hart, Jennifer K.; Rodermel, Steven R.; Baum, Thomas J.

CS Department of Plant Pathology, Iowa State University, Ames, IA, 50011, USA

SO Molecular Plant-Microbe Interactions (2002), 15(6), 577-586

CODEN: MPMIEL; ISSN: 0894-0282

PB APS Press

DT Journal

LA English

RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2

AN 2002:15455 CAPLUS

DN 136:163180

TI Soybean Ascorbate Peroxidase Suppresses Bax-Induced Apoptosis in Yeast by Inhibiting Oxygen Radical Generation

AU Moon, Haejeong; Baek, Dongwon; Lee, Boyoung; Prasad, D. Theertha; Lee, Sang Yeol; Cho, Moo Je; Lim, Chae Oh; Choi, Myung Suk; Bahk, Jeongdong; Kim, Myeong Ok; Hong, Jong Chan; Yun, Dae-Jin
 CS Division of Applied Life Science (BK21 Program) and Plant Molecular Biology and Biotechnology Research Center, Gyeongsang National University, Jinju, 660-701, S. Korea
 SO Biochemical and Biophysical Research Communications (2002), 290(1), 457-462
 CODEN: BBRC9; ISSN: 0006-291X
 PB Academic Press
 DT Journal
 LA English
 RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 3
 AN 2002:384143 CAPLUS
 DN 137:16337
 TI A compilation of soybean ESTs: Generation and analysis
 AU Shoemaker, Randy; Keim, Paul; Vodkin, Lila; Retzel, Ernest; Clifton, Sandra W.; Waterston, Robert; Smoller, David; Coryell, Virginia; Khanna, Anupama; Erpelding, John; Gai, Xiaowu; Brendel, Volker; Raph-Schmidt, Christina; Shoop, E. G.; Vielweber, C. J.; Schmatz, Matt; Pape, Deana; Bowers, Yvette; Theising, Brenda; Martin, John; Dante, Michael; Wylie, Todd; Granger, Cheryl
 CS USDA-ARS, Corn Insect and Crop Genetics Research Unit, and Department of Agronomy, Iowa State University, Ames, IA, 50011, USA
 SO Genome (2002), 45(2), 329-338
 CODEN: GENOE3; ISSN: 0831-2796
 PB National Research Council of Canada
 DT Journal
 LA English

L2 ANSWER 4 OF 18 AGRICOLA DUPLICATE 4
 AN 2001:49930 AGRICOLA
 DN IND22904977
 TI A putative defective interfering RNA from Bean pod mottle virus.
 AU Sundararaman, V.P.; Stromvik, M.V.; Vodkin, L.O.
 SO Plant disease, Dec 2000. Vol. 84, No. 12. p. 1309-1313
 Publisher: [St. Paul, Minn., American Phytopathological Society]
 CODEN: PLDIDE; ISSN: 0191-2917
 NTE Includes references
 CY Minnesota; United States
 DT Article
 FS U.S. Imprints not USDA, Experiment or Extension
 LA English

L2 ANSWER 5 OF 18 AGRICOLA DUPLICATE 5
 AN 2000:71247 AGRICOLA
 DN IND22069915
 TI Expression and genome organization of resistance gene analogs in soybean.
 AU Graham, M.A.; Marek, L.F.; Lohnes, D.; Cregan, P.; Shoemaker, R.C.
 SO Genome, Feb 2000. Vol. 43, No. 1. p. 86-93
 Publisher: Ottawa, Ontario, Canada : National Research Council of Canada.
 CODEN: GENOE3; ISSN: 0831-2796
 NTE Includes references
 CY Canada; Ontario

DT Article
 FS Non-U.S. Imprint other than FAO
 LA English
 SL French

=> d 12 6-10

L2 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2002 ACS
 AN 1999:271503 CAPLUS
 DN 130:292825
 TI Cytochrome P450 genes of soybean and their use in introduction of
 phenylurea herbicide resistance in plants
 IN Siminszky, Balazs; Dewey, Ralph E.; Corbin, Frederick T.
 PA North Carolina State University, USA
 SO PCT Int. Appl., 92 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9919493	A2	19990422	WO 1998-US20807	19981005
	WO 9919493	A3	19990701		
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
	US 6121512	A	20000919	US 1997-948564	19971010
	AU 9896806	A1	19990503	AU 1998-96806	19981005
PRAI	US 1997-948564	A	19971010		
	WO 1998-US20807	W	19981005		

L2 ANSWER 7 OF 18 AGRICOLA DUPLICATE 6
 AN 1999:3279 AGRICOLA
 DN IND21813735
 TI Cloning and expression of the soybean chlH gene encoding a subunit of
 Mg-chelatase and localization of the mg2+ concentration-dependent chlH
 protein within the chloroplast.
 AU Nakayama, M.; Masuda, T.; Bando, T.; Yamagata, H.; Ohta, H.; Takamiya,
 K.I.
 CS Tokyo Institute of Technology, Nagatsuta, Yokohama, Japan.
 AV DNAL (450 P699)
 SO Plant and cell physiology, Mar 1998. Vol. 39, No. 3. p. 275-284
 Publisher: Kyoto, Japan : Japanese Society of Plant Physiologists.
 CODEN: PCPHA5; ISSN: 0032-0781
 NTE Includes references
 CY Japan
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L2 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 7
 AN 1999:173082 CAPLUS
 DN 131:29155
 TI Cloning of putative subunits of the soybean plasma membrane NADPH oxidase
 involved in the oxidative burst by antibody expression screening
 AU Tenhaken, Raimund; Rubel, Christine
 CS Fachbereich Biologie, Universitat Kaiserslautern, Kaiserslautern, Germany
 SO Protoplasma (1998), 205(1-4), 21-28
 CODEN: PROTA5; ISSN: 0033-183X
 PB Springer-Verlag Wien
 DT Journal
 LA English
 RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 18 AGRICOLA DUPLICATE 8
 AN 1998:20396 AGRICOLA
 DN IND20622798
 TI NOD3, a novel late nodulin gene from soybean is expressed in the infected
 cells and the nodule parenchyma.
 AU Roussis, A.; Papadopoulou, K.; Katinakis, P.
 CS Agricultural University of Athens, Athens, Greece.
 AV DNAL (450 J8224)
 SO Journal of experimental botany, May 1997. Vol. 48, No. 310. p. 1011-1017
 Publisher: Oxford : Oxford University Press.
 CODEN: JEBOA6; ISSN: 0022-0957
 NTE Includes references
 CY England; United Kingdom
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L2 ANSWER 10 OF 18 AGRICOLA DUPLICATE 9
 AN 97:31404 AGRICOLA
 DN IND20562123
 TI Sequence analysis of a cDNA containing the gag and prot regions of the
 soybean retrovirus-like element, SIRE-1.
 AU Bi, Y.A.; Laten, H.M.
 CS Loyola University Chicago.
 SO Plant molecular biology, Mar 1996. Vol. 30, No. 6. p. 1315-1319
 Publisher: Dordrecht : Kluwer Academic Publishers.
 CODEN: PMBIDB; ISSN: 0167-4412
 NTE Includes references
 CY Netherlands
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

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	ENTRY	SESSION
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=> d 12 11-18

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L2 ANSWER 11 OF 18 AGRICOLA DUPLICATE 10
AN 97:31289 AGRICOLA
DN IND20562003
TI Isolation of an additional soybean cDNA encoding Ypt/Rab-related small GTP-binding protein and its functional comparison to Sypt using a yeast ypt1-1 mutant.
AU Kim, W.Y.; Cheong, N.E.; Lee, D.C.; Lee, K.O.; Je, D.Y.; Bahk, J.D.; Cho, M.J.; Lee, S.Y.
CS Gyeongsang National University, Chinju, Korea.
SO Plant molecular biology, July 1996. Vol. 31, No. 4. p. 783-792
Publisher: Dordrecht : Kluwer Academic Publishers.
CODEN: PMBIDB; ISSN: 0167-4412
NTE Includes references
CY Netherlands
DT Article
FS Non-U.S. Imprint other than FAO
LA English

L2 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 11
AN 1996:266849 CAPLUS
DN 124:336128
TI Plant clathrin heavy chain: sequence analysis and restricted localization in growing pollen tubes
AU Blackbourn, Hugh D.; Jackson, Antony P.
CS Biochem. Dep., Univ. Cambridge, Cambridge, CB2 1QW, UK
SO Journal of Cell Science (1996), 109(4), 777-86
CODEN: JNCSAI; ISSN: 0021-9533
PB Company of Biologists
DT Journal
LA English

L2 ANSWER 13 OF 18 AGRICOLA DUPLICATE 12
AN 96:963 AGRICOLA
DN IND20489899
TI Cloning, subcellular localization and expression of CHL1, a subunit of magnesium-chelatase in soybean.
AU Nakayama, M.; Masuda, T.; Sato, N.; Yamagata, H.; Bowler, C.; Ohta, H.; Shioi, Y.; Takamiya, K.
CS Tokyo Gakugei University, Koganei, Japan.
AV DNAL (442.8 B5236)
SO Biochemical and biophysical research communications, Oct 4, 1995. Vol. 215, No. 1. p. 422-428
Publisher: Orlando, Fla. : Academic Press.
CODEN: BBRC99; ISSN: 0006-291X
NTE Includes references
CY Florida; United States
DT Article

FS U.S. Imprints not USDA, Experiment or Extension
 LA English

L2 ANSWER 14 OF 18 AGRICOLA DUPLICATE 13
 AN 96:18652 AGRICOLA
 DN IND20504270
 TI Isolation and characterization of six heat shock transcription factor cDNA clones from soybean.
 AU Czarnecka-Verner, E.; Yuan, C.X.; Fox, P.C.; Gurley, W.B.
 CS University of Florida, Gainesville, FL.
 AV DNAL (QK710.P62)
 SO Plant molecular biology, Oct 1995. Vol. 29, No. 1. p. 37-51
 Publisher: Dordrecht : Kluwer Academic Publishers.
 CODEN: PMBIDB; ISSN: 0167-4412
 NTE Includes references
 CY Netherlands
 DT Article
 FS Non-U.S. Imprint other than FAO
 LA English

L2 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 14
 AN 1992:16563 CAPLUS
 DN 116:16563
 TI Isolation and characterization of chlorophyll a/b binding protein genes in soybean
 AU Cho, Tae Ju; Chung, Kee A.; Chae, Quae
 CS Dep. Biochem., Chungbuk Natl. Univ., Cheongju, 360-763, S. Korea
 SO Han'guk Saenghwa Hakhoechi (1991), 24(5), 501-7
 CODEN: KBCJAK; ISSN: 0368-4881
 DT Journal
 LA English

L2 ANSWER 16 OF 18 AGRICOLA DUPLICATE 15
 AN 91:58469 AGRICOLA
 DN IND91030691
 TI Induced plant responses to pathogen attack. Analysis and heterologous expression of the key enzyme in the biosynthesis of phytoalexins in soybean (Glycine max L. Merr. cv. Harosoy 63).
 AU Welle, R.; Schroder, G.; Schiltz, E.; Grisebach, H.; Schroder, J.
 CS Universitat Freiburg, FRG
 AV DNAL (QP501.E8)
 SO European journal of biochemistry, Mar 1991. Vol. 196, No. 2. p. 423-430
 ill
 Publisher: Secaucus, N.J. : Springer-Verlag New York Inc.
 CODEN: EJBCAI; ISSN: 0014-2956
 NTE Includes references.
 DT Article
 FS U.S. Imprints not USDA, Experiment or Extension
 LA English

L2 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 16
 AN 1990:173541 CAPLUS
 DN 112:173541
 TI Molecular cloning of cDNA encoding the precursor to the glycinin A2B1a subunit of soybean
 AU Kim, Chung Ho; Choi, Yang Do
 CS Dep. Agric. Chem., Seoul Natl. Univ., Suwon, 440-744, S. Korea

SO Han'guk Saenghwa Hakhoechi (1989), 22(2), 233-41
CODEN: KBCJAK; ISSN: 0368-4881
DT Journal
LA English

L2 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2002 ACS
AN 1988:543677 CAPLUS
DN 109:143677
TI Transcriptional regulation of auxin responsive genes
AU Guilfoyle, Tom; Hagen, Gretchen
CS Dep. Bot., Univ. Minnesota, St. Paul, MN, 55108, USA
SO UCLA Symp. Mol. Cell. Biol., New Ser. (1987), 44(Mol. Biol. Plant Growth
Control), 85-95
CODEN: USMBD6; ISSN: 0735-9543
DT Journal
LA English

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=>

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NEWS	3	Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09 ZDB will be removed from STN